Amendments to the Specification:

Please replace the paragraph beginning at **page 1, line 23,** with the following amended paragraph:

The router 11 operates to route data packets received on a port of the router to other ports of the router based on a destination ~~source~~ IP address contained in the data packet. Typically a router will contain a large number of ports to which different data link layer (layer 2 of the OSI model) subnets are connected. In Fig. 1 six ports 12, 14, 16, 18, 20 and 22 are shown, but in many embodiments the router would include additional ports. For example, a typical router could include 24 or 36 ports.

Please replace the paragraph beginning at **page 4, line 6,** with the following amended paragraph:

Fig. 2 shows a system 100 of an embodiment of the present invention. The router 101 operates to provide layer 3 routing of data packets between different hosts on the system. For example, the router 101 can route data packets received on a port of the router 101 to other ports of the router based on a destination ~~source~~ IP address contained in a received data packet. Typically a router will contain a large number of ports to which different level 2 subnets are connected. In figure 2 six ports 102, 106, 108, 110, 112 and 114 are shown, but in many embodiments the router would include additional ports.